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### ABSTRACT

A method and system for determining a location of a user equipment using RTT measurements from a connected node B and RTT measurement of other node Bs which are not connected to the user equipment. The radio network controller of a network measures RTT of a connected node Bs and then measures RTT of non connected node Bs. Based on the RTT  
5 measurement, the distances of the user equipment from each node B is determined. Circles having radii equal to the distances of the user equipment from the nodes are used to determine the user equipment location.